

# ANIXTER

## Technical Data Sheet

|                         |                           |
|-------------------------|---------------------------|
| <b>Anixter Part No:</b> | <b>BS5467-5C-0060-IRL</b> |
|-------------------------|---------------------------|

### Description

*stranded plain annealed copper conductors, XLPE insulation, cores laid up, PVC sheath, galvanised steel wire armour, PVC sheath (black). BS5467*

### Dimensions

|                               |        |                 |
|-------------------------------|--------|-----------------|
| Number of cores               | 5      | no.             |
| Nominal conductor size        | 6.0    | mm <sup>2</sup> |
| Nominal conductor stranding   | 7/1.04 | #/mm            |
| Insulation thickness          | 0.7    | mm              |
| Inner sheath thickness        | 0.8    | mm              |
| Nominal inner sheath diameter | 14.5   | mm              |
| Armour wire size              | 1.25   | mm              |
| Outer sheath thickness        | 1.5    | mm              |
| Nominal outer diameter        | 20.0   | mm              |

### Electrical Characteristics

|                                                         |          |                  |
|---------------------------------------------------------|----------|------------------|
| Nominal voltage rating (U <sub>0</sub> /U)              | 600/1000 | V <sub>rms</sub> |
| Maximum DC conductor resistance @ 20°C                  | 3.08     | ohm/km           |
| Maximum AC conductor resistance @ 90°C                  | 3.93     | ohm/km           |
| Reactance @ 50 Hz                                       | 0.0885   | ohm/km           |
| Impedance @ 90°C, 50Hz                                  | 3.93     | ohm/km           |
| Voltage drop                                            | 6.8      | mV/A/m           |
| Maximum DC armour resistance @ 20°C                     | 3.90     | ohm/km           |
| Conductor short-circuit rating (1s)                     | 0.858    | kA               |
| Armour short-circuit rating (1s)                        | 1.84     | kA               |
| Sustained Current Ratings:                              |          |                  |
| Buried direct (15°C ground temperature, 1.2°C m/W)      | 69       | A                |
| In single-way duct (15°C ground temperature, 1.2°C m/W) | 56       | A                |
| In air (25°C ambient temperature)                       | 59       | A                |

### Physical Characteristics

|                                             |                                                                  |       |
|---------------------------------------------|------------------------------------------------------------------|-------|
| Maximum conductor operating temperature     | 90                                                               | °C    |
| Maximum conductor short-circuit temperature | 250                                                              | °C    |
| Maximum armour short-circuit temperature    | 200                                                              | °C    |
| Conductor material                          | Stranded Class 2 plain annealed copper conductors to BS EN 60228 |       |
| Insulation material                         | XLPE Type GP8 to BS7655 Section 1.3                              |       |
| Inner sheath material                       | PVC Type 9 to BS7655 Section 4.2                                 |       |
| Armour material                             | Mild galvanised steel wires to BS EN 10257-1                     |       |
| Outer sheath material                       | PVC Type 9 to BS7655 Section 4.2                                 |       |
| Maximum pulling tension by conductor eye    | 180                                                              | kgf   |
| Minimum bending radius                      | 120                                                              | mm    |
| Flame resistance                            | Flame retardant to BS EN 60332-1-2                               |       |
| Weight                                      | 940                                                              | kg/km |

**Core Identification:** brown, black, grey, blue, green/yellow

|                    |                              |                         |
|--------------------|------------------------------|-------------------------|
| <b>Issue No:</b> 1 | <b>Drawn By:</b> M S Fordham | <b>Date:</b> 17/07/2009 |
|--------------------|------------------------------|-------------------------|